

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

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Cours Michelet - La Défense 10
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FranceDate of mailing (day/month/year)
03 février 2003 (03.02.03)Applicant's or agent's file reference
HN/fo-AM7076

IMPORTANT NOTIFICATION

International application No.
PCT/EP01/08018International filing date (day/month/year)
11 juillet 2001 (11.07.01)

1. The following indications appeared on record concerning:

☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative

Name and Address

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2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☒ the name ☐ the address ☐ the nationality ☐ the residence

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3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office ☒ the designated Offices concerned
☐ the International Searching Authority ☐ the elected Offices concerned
☐ the International Preliminary Examining Authority ☐ other:The International Bureau of WIPO
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 01/08018

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08F8/06 C08L27/16 C08L27/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08F C08C C08J C08L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 147 314 A (E. F. CLUFF) 1 September 1964 (1964-09-01) column 1, line 65 - column 2, line 13 column 2, line 26 - line 65 column 4, line 21 - line 31; claims 1-5 ---	1
Y	CHEMICAL ABSTRACTS, vol. 122, no. 10, 6 March 1995 (1995-03-06) Columbus, Ohio, US; abstract no. 106851f, page 23; XP000666970 abstract	1-9
Y	& JP 06 279537 A (JAPAN SYNTHETIC RUBBER CO., LTD.) 4 October 1994 (1994-10-04) --- -/--	1-9



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

20 March 2002

Date of mailing of the international search report

02/04/2002

Name and mailing address of the ISA

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Permentier, W

INTERNATIONAL SEARCH REPORT

Inte. l. Application No

PCT/EP 01/08018

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 560 595 A (L. N. PHILLIPS) 2 February 1971 (1971-02-02) column 2, line 3 - line 59; claims 1-8 ----	1-9
Y	WO 97 27260 A (ELF ATOCHEM S.A.) 31 July 1997 (1997-07-31) cited in the application page 2, line 11 - line 26; claims 1-9 ----	1-9
P,Y	EP 1 054 023 A (ATOFINA) 22 November 2000 (2000-11-22) the whole document ----	1-9
A	EP 0 481 283 A (AUSIMONT S.P.A.) 22 April 1992 (1992-04-22) page 3, line 35 - line 55; claims 1-11 ----	1
A	EP 0 507 468 A (DOW CORNING CORPORATION) 7 October 1992 (1992-10-07) column 3, line 53 -column 7, line 54; claims 1-8 ----	1
A	US 5 476 590 A (D. J. BROSE) 19 December 1995 (1995-12-19) column 1, line 41 -column 2, line 5; claims 1-10 ----	1
A	GB 881 503 A (SOLVIC S.A.) 1 November 1961 (1961-11-01) claims 1-10 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 01/08018

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3147314	A	01-09-1964	NONE	
JP 6279537	A	04-10-1994	NONE	
US 3560595	A	02-02-1971	GB 1144163 A	05-03-1969
			DE 1645021 A1	24-09-1970
			DE 1645020 A1	24-09-1970
			FR 1488192 A	07-07-1967
			FR 1488595 A	13-07-1967
			GB 1152208 A	14-05-1969
			US 3507844 A	21-04-1970
WO 9727260	A	31-07-1997	JP 9199132 A	31-07-1997
			JP 9199134 A	31-07-1997
			JP 9199130 A	31-07-1997
			JP 10102021 A	21-04-1998
			AU 1444897 A	20-08-1997
			CA 2243354 A1	31-07-1997
			CN 1213393 A	07-04-1999
			WO 9727260 A1	31-07-1997
			EP 0876439 A1	11-11-1998
EP 1054023	A	22-11-2000	CN 1275581 A	06-12-2000
			EP 1054023 A1	22-11-2000
			JP 2001011115 A	16-01-2001
EP 481283	A	22-04-1992	IT 1243982 B	28-06-1994
			DE 69118644 D1	15-05-1996
			DE 69118644 T2	26-09-1996
			EP 0481283 A1	22-04-1992
			JP 8003406 A	09-01-1996
			US 5270115 A	14-12-1993
			US 5219661 A	15-06-1993
EP 507468	A	07-10-1992	EP 0507468 A2	07-10-1992
			JP 5112616 A	07-05-1993
			US 5367023 A	22-11-1994
			US 5395886 A	07-03-1995
US 5476590	A	19-12-1995	DE 19608759 A1	19-09-1996
GB 881503	A	01-11-1961	NONE	

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(19) World Intellectual Property Organization
International Bureau



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Barc (FR). **BURCHILL, Michael** [US/US]; 83 Hampton Drive, Langhorne, PA 19047 (US).

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(74) Agent: **NEEL, Henry**; Atofina, Département Propriété Industrielle, Cours Michelet - La Défense 10, F-92091 Paris la Defense (FR).

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(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLUORINE TYPE ADHESIVE RESIN COMPOSITION

(57) Abstract: To introduce polar group by a simple and easy method without spoiling solvent-resistance and mechanical/thermal properties which fluorine type resin inherently possess to provide a fluorine type resin composition improved in adhesion. To provide an electrode structure for battery improved in adhesion between the electrode active material and the current collector by using the composition as a binder. Solution measure: partially denatured fluorine type resin (B') obtained by partial dehydrogenfluoride reaction and oxidation reaction is mixed to at least one fluorine type resin (A) at a weight ratio of (A/B') of 30/70 to 99/1.



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